

Physics and Experiment Board Meeting

February 2 (1400 GMT) & 9 (0600 GMT), 2010

Minutes (prepared by J. Brau)

The February meeting was started on February 2, but due to technical problems, was adjourned and resumed on February 9.

Present via Webex (2/9): Ties Behnke, Phil Burrows (for Karsten Buesser), Marcel Demarteau, John Jaros, Akiya Miyamoto, Michael Peskin, Francois Richard, Yasuhiro Sugimoto, Sakue Yamada, Hitoshi Yamamoto, Harry Weerts, Jim Brau.

Absent (2/9): Catherine Clerc.

FALC Meeting at Mumbai

The FALC met in Mumbai on January 18. The agenda included governance, ILCSC report, report by Barry, and the first report by Sakue to the FALC. Sakue explained the detector activities, the organization, the detector work plans, made the point that funding is essential through 2012. In Bagger's ILCSC report he said it was important to be thinking of how to proceed following the 2012 time-frame. The FALC will meet again in June.

ILCSC Meeting at Brookhaven

The ILCSC will meet on February 25 at Brookhaven. Sakue will report, including an overview of the R&D planning, and updates from the LOI groups and common task groups.

There will be a report on the SB2009 WG. Jim will report for the WWS.

ILD - Ties

ILD met in Paris, January 28-30, with parallel pre-meetings on January 27. There was a focus on planning for the efforts through 2012. A plan was developed and a better understanding of what needs to be done, and what can be done was developed. Coordination with R&D collaborations was respected. ILCSC plans to delay choices between technical options, but will evaluate which are ready. A simulation roadmap is being developed. Performance at 1 TeV will be studied. The synergy with CLIC detectors was discussed. ILCSC may meet again in the summer.

Due to technical difficulties, the meeting was adjourned at this point, and resumed February 9 at 0600 GMT.

LCWS in Beijing, March 26-30 - Hitoshi

Hitoshi reported on the status of the LCWS program. The placement of the SB2009 discussion and the IDAG meetings are uncertain. IDAG will interview detector groups, and some common task groups. A face-to-face meeting of the PE Board will be scheduled, perhaps at lunch time).

SB2009 Working Group – Jim

The SB2009 Working Group has been preparing simulations to quantify the impact of SB2009 on physics reach. Guinea Pig runs are being executed, and several physics studies are being prepared. These include $e^+e^- \rightarrow \mu^+ \mu^- h$, at 250, 350 and 500 GeV, measuring the mass and cross section, stau detection in the presence of increased forward beamstrahlung backgrounds, threshold Higgs production to establish the spin of the Higgs, and the Snowmass scenarios study (<http://arxiv.org/pdf/hep-ex/0211002v1>).

SiD - Harry

SiD submitted its work plan last year. The work plan was detailed, showing resources needed and missing (which were substantial). A somewhat refined plan will be available for LCWS. The next meeting will be in early June.

MDI – Phil (reporting for Karsten)

Some studies have been done recently on backgrounds, vibrations, detector stability, and support mechanisms.

Detector R&D – Marcel

The Detector R&D draft document highlights a few R&D topics that are believed to be critical for high level development by 2012. This was presented at the PAC and the PAC requested further details on available resources. The common task group has not been able to agree on the level of detail which should be documented. Sakue expressed a concern that only some topics are not included in the document, yet they all need to receive continued support. John noted that the document was prepared before the SiD and ILD work plans were available, and incorporating them could be good.

Software – Akiya

Software experts are busy helping with the SB2009 studies.

Physics - Michael

The Physics working group is studying the impact of the LHC schedule on the prospects for discoveries. The benchmarking document has been sent to CLIC (Lucie L. and Marco B.) and to the Muon Collider organizers.

CLIC-ILC Joint Working Group - Sakue

Formation of a CLIC-ILC Joint Working Group is proceeding slowly. Nevertheless, good cooperation is proceeding, especially on simulations.

Next meeting

The next meeting will be on Tuesday, March 2 at 2200 GMT.

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